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PATENT

Applicant's Docket No. 191/001/DIV1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Utermohlen, Joseph, et al

Serial No: 10/652,676

Filed: 08/28/2003

For: Hybridization Buffers Using Low Molecular  
Weight Dextran Sulfate and Methods for Their Use

Group No.: 1637

Examiner: Tung, Joyce (predicted)

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In regard to the above-referenced patent application, enclosed please find:

- (1) Transmittal of Information Disclosure Statement within Three Months of Filing or Before Mailing of First Office Action and Authorization to Charge Deposit Account, in duplicate
- (2) Information Disclosure Statement
- (3) Post Card

Date:

3/14/05

Signature of Practitioner  
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**CERTIFICATE OF MAILING UNDER 37 C.F.R. section 1.8**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date:

3/14

, 2005

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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. section 1.97(b))  
AND AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING  
INFORMATION DISCLOSURE STATEMENT

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 C.F.R. section 1.97(b). Accordingly, no fee should be required for filing this information disclosure statement. However, if the Office determines that a fee is required, please charge any fee to Deposit Account 50-0861. A duplicate copy of this Transmittal is enclosed.

Date:

3/14/05

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(Transmittal of Information Disclosure Statement Within Three Months of Filing or Before Mailing of First Office Action)



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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**List of Sections Forming Part of This Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
2. Copies of Listed Information Items Accompanying This Statement

(Information Disclosure Statement)

**Section 1. Forms PTO/SB/08A and 08B (substitute for Form PTO-1449)**

(Information Disclosure Statement)



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PTO/SB/08B (10-96)  
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO  <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 5px 0;">(use as many sheets as necessary)</p>		<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/652,676</td> </tr> <tr> <td>Filing Date</td> <td>08/28/2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Utermohlen</td> </tr> <tr> <td>Group Art Unit</td> <td>1637</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>191/001/DIV1</td> </tr> </table>		Application Number	10/652,676	Filing Date	08/28/2003	First Named Inventor	Utermohlen	Group Art Unit	1637	Examiner Name	Not yet assigned	Attorney Docket Number	191/001/DIV1
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Sheet	1	of	1												

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	P1	AMASINO, "Acceleration of Nucleic Acid Hybridization Rate by Polyethylene Glycol," Analytical Biochemistry, Vol. 152 (No. 2), p. 304-307, (February 1, 1986).	
	Q1	BARR, ET AL, "Application of a Subtraction Hybridization Technique Involving Photoactivatable Biotin and Organic Extraction to Solution Hybridization Analysis of Genomic DNA," Analytical Biochemistry, Vol. 186 (No. 2), p. 369-373, (May 1, 1990).	
	R1	FLEMMING, ET AL, "Optimization of Non-Isotopic In Situ Hybridization on Formalin-Fixed, Paraffin-Embedded Material Using Digoxigenin-Labelled Probes and Transgenic Tissues," Journal of Pathology, Vol. 167 (No. 1), p. 9-17, (February 10, 1992).	
	S1	GINGERAS, ET AL, "Hybridization Properties of Immobilized Nucleic Acid," Nucleic Acids Research, IRL Press Limited (Oxford, England), Vol. 15 (No. 13), p. 5373-5390, (July 10, 1987).	
	T1	HARPER, ET AL, "Localization of Single Copy DNA Sequences on G-Banded Human Chromosomes by in situ Hybridization," Chromosoma, Springer-Verlag, Vol. 83 (No. 3), p. 431-439, (1981).	
	U1	LEDERMAN, ET AL, "The Rate of Nucleic Acid Annealing to Cytological Preparations is Increased in the Presence of Dextran Sulfate," Analytical Biochemistry, Vol. 117 (No. 1), p. 158-163, (October 1981).	
	V1	MAKI, ET AL, "Nonradioactive in Situ Hybridization Histochemistry in Leukemic and Nonleukemic Culture," Biotechnic and Histochemistry, Vol. 72 (No. 1), p. 38-44, (January 1997).	
	W1	MEINKOTH, ET AL, "Hybridization of Nucleic Acids Immobilized on Solid Supports," Analytical Biochemistry, Vol. 138 (No. 2), p. 267-284, (May 1, 1984).	
	X1	VAN GILSWIJK, ET AL, "Improved Localization of Fluorescent Tyramides for Fluorescence in Situ Hybridization Using Dextran Sulfate," Journal of Histochemistry and Cytochemistry, Vol. 44 (No. 4), p. 389-392, (April 3, 1996).	
	Y1	WAHL, ET AL, "Efficient Transfer of Large DNA Fragments from Agarose Gels to Diazobenzyloxymethyl-paper and Rapid Hybridization by Using Dextran Sulfate," Proceeding of the National Academy of Sciences USA, Vol. 76 (No. 8), p. 3683-3687, (August 1979).	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**Section 2. Copies of Listed Information Items Accompanying This Statement**

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

(Information Disclosure Statement)